

SCHEMATIC DIAGRAM FOR MODEL TC-AV29EE / TC-AV33EE (M15M CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

NOTES :

1. RESISTOR

All resistors are carbon 1/4W resistor, unless marked as follows :
Unit of resistance is OHM [Ω] (K = 1,000 , M = 1,000,000).

- | | |
|---------------------------|---------------------------|
| \bigcirc : Nonflammable | \boxtimes : Metal Oxide |
| Δ : Solid | \odot : Metal Film |
| \boxplus : Wire Wound | \otimes : Fuse |

2. CAPACITOR

All capacitors are ceramic 50V capacitor, unless marked as follows :
Unit of capacitance is μ F, unless otherwise noted.

- | | |
|--------------------------------------|------------------------------|
| \otimes : Temperature Compensation | H : Electrolytic |
| M : Polyester | NP : Bipolar |
| m : Metalized Polyester | ① : Dipped Tantalum |
| \boxtimes : Polypropylene | ② : Z - Type |

3. COIL

Unit of inductance is μ H, unless otherwise noted.

4. TEST POINT

- \bigcirc : Test Point position

5. EARTH SYMBOL

- $\text{---}\diagup\diagdown\text{---}$: Chassis Earth (Cold) \perp : Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following :

- | | |
|----------------------------|-----------------------------|
| Power Source | AC 220 V, 50Hz |
| Receiving Signal | Colour Bar signal (RF) |
| Normalization button | Pushed (Normal condition) |
| Picture control | Fully clockwise |
| Sound Volume | Maximum |

7. Number in red circle indicates waveform number. (See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow.

9. \rightarrow : Indicates the major signal flow.

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

REMARKS :

- The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions. All circuits, except the Power Circuit, are cold.

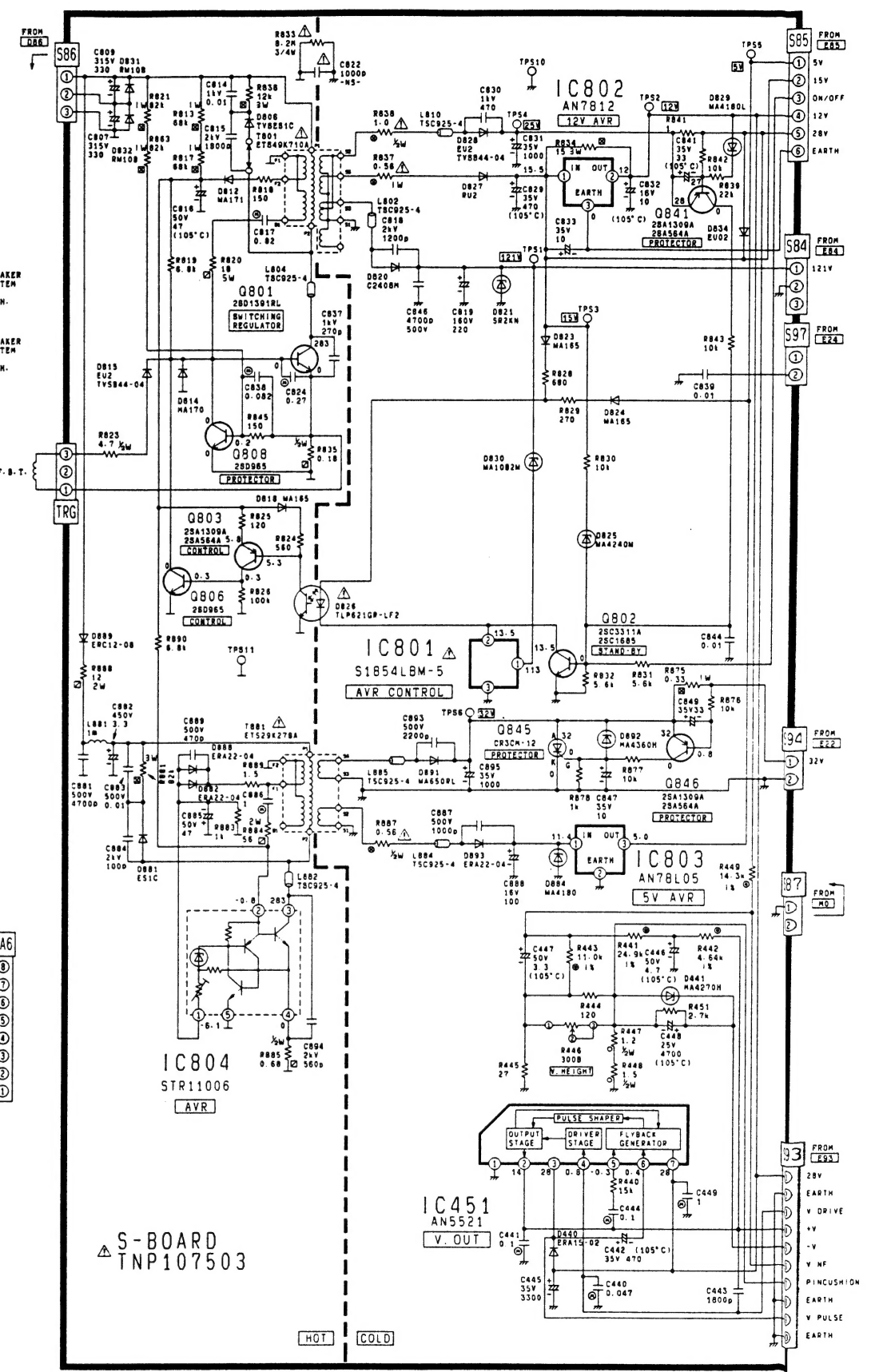
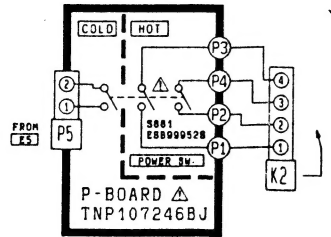
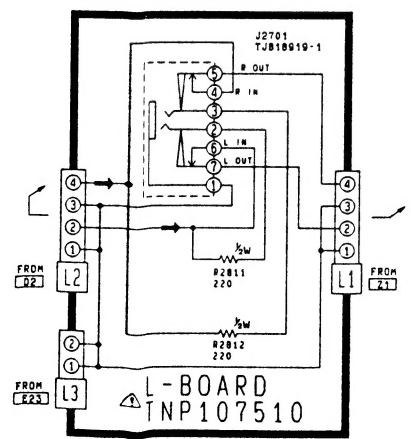
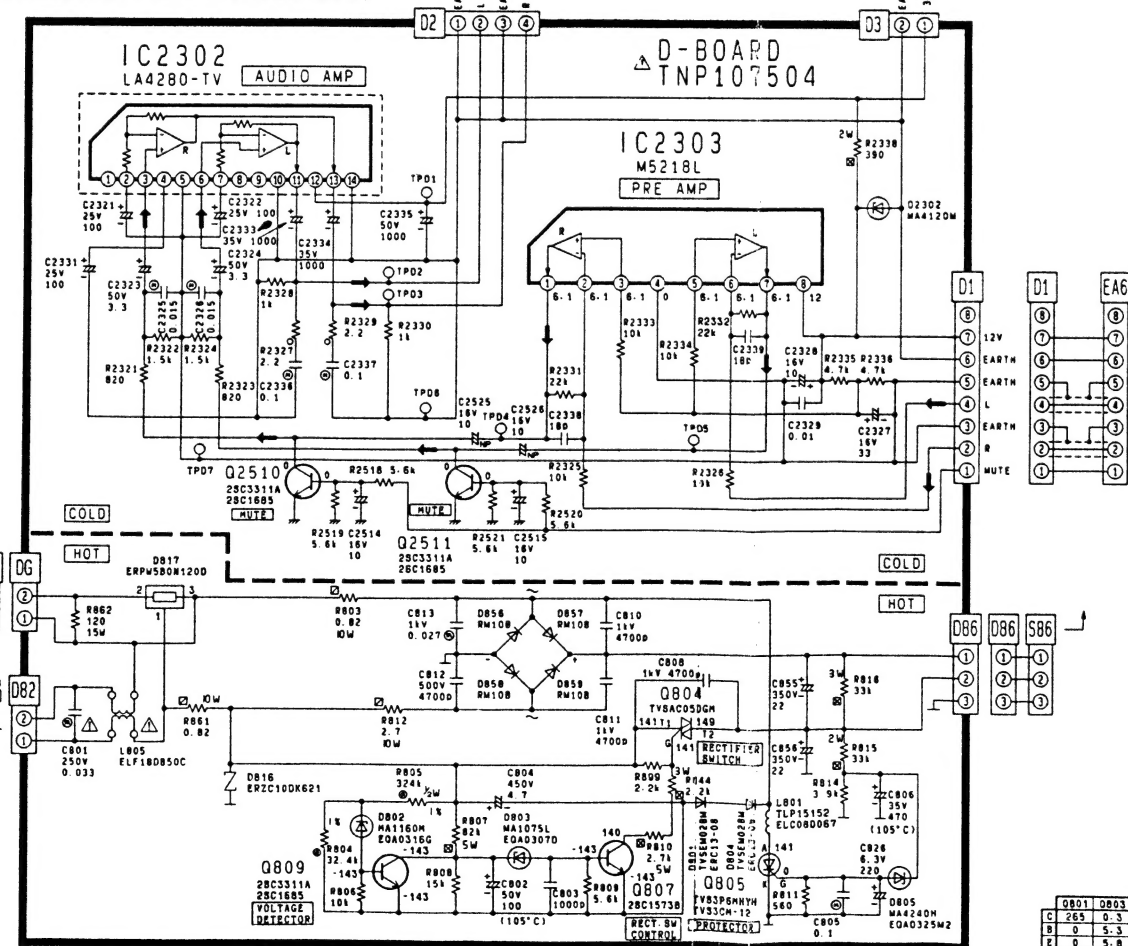
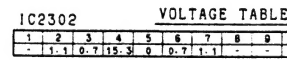
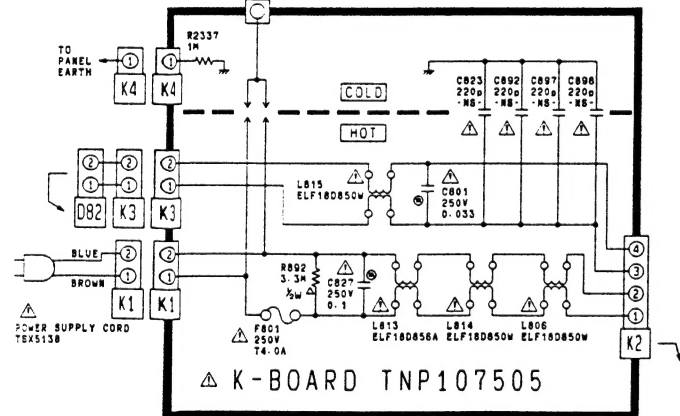
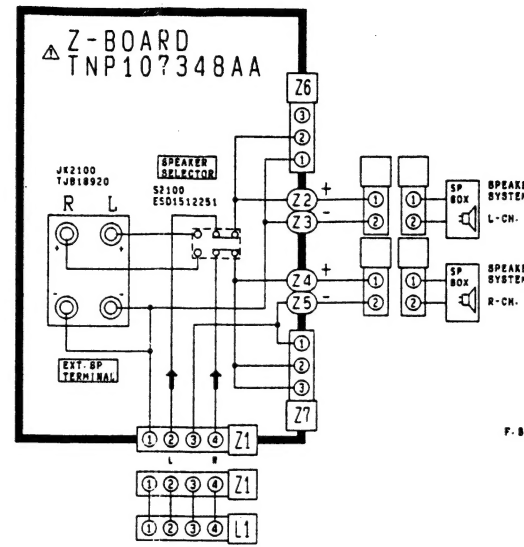
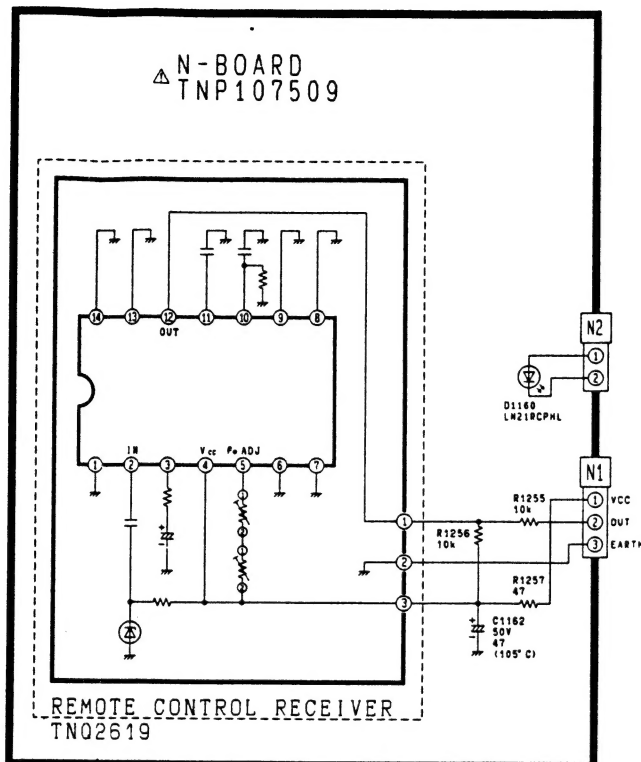
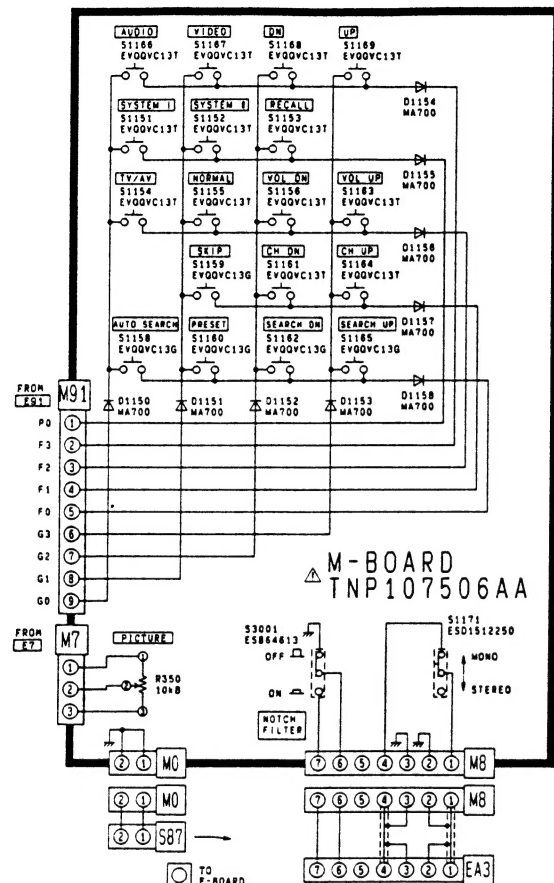
Precautions

- Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
- Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow. Connect the earth of instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

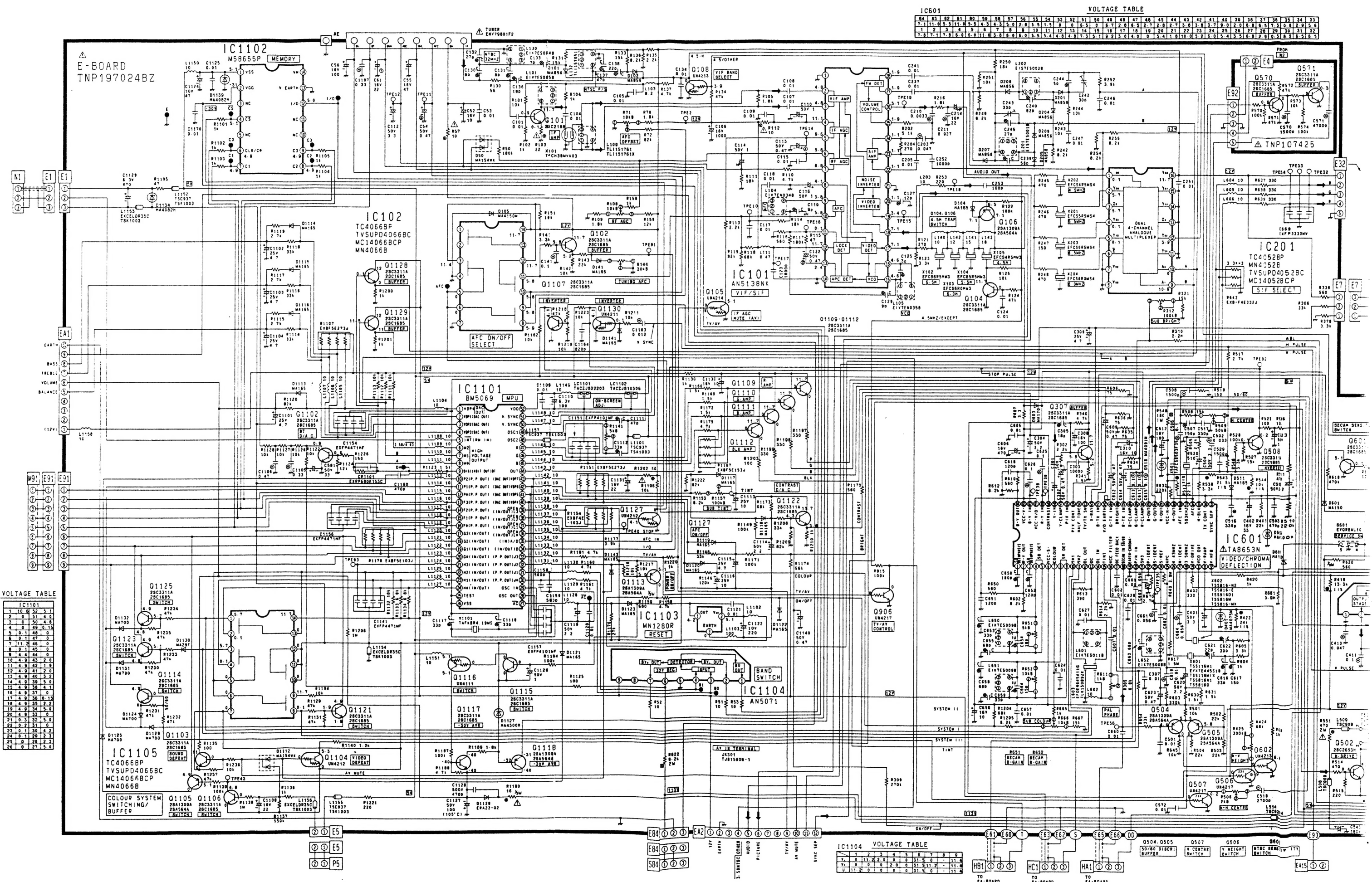
2. Following diodes are interchangeable.

MA150 - MA162 (Replacement part)

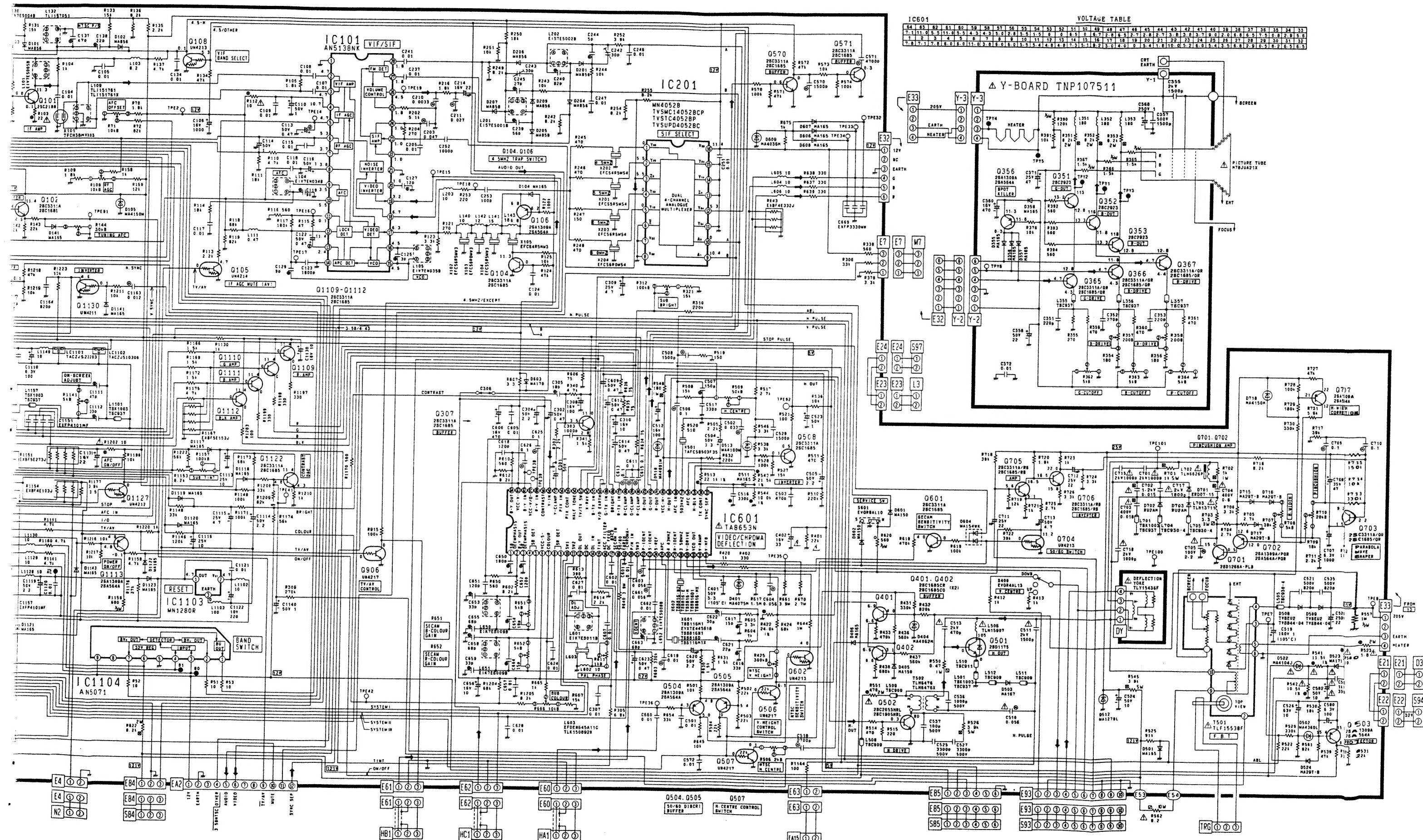
SCHEMATIC DIAGRAM FOR MODEL TC-AV33EE

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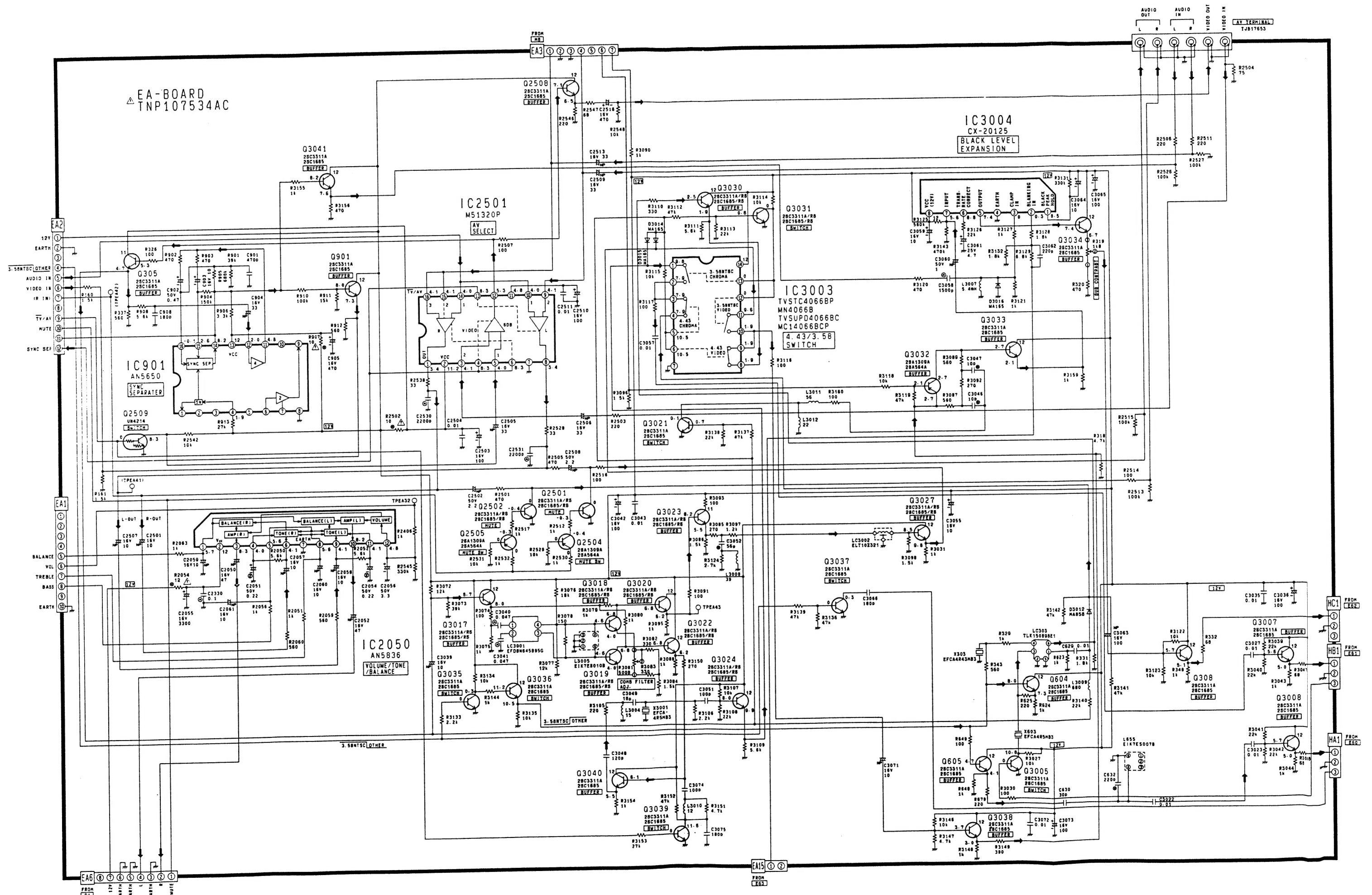
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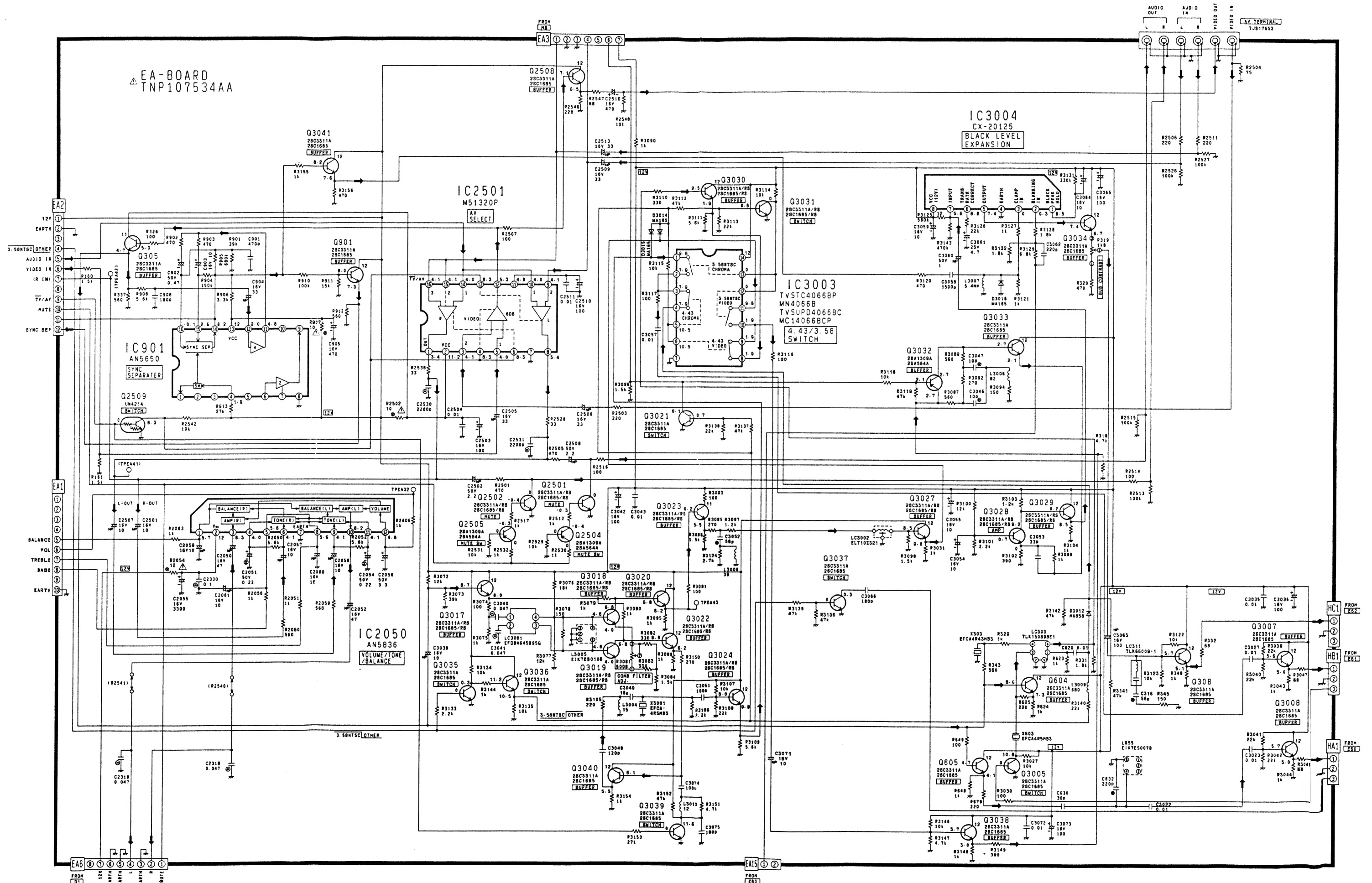
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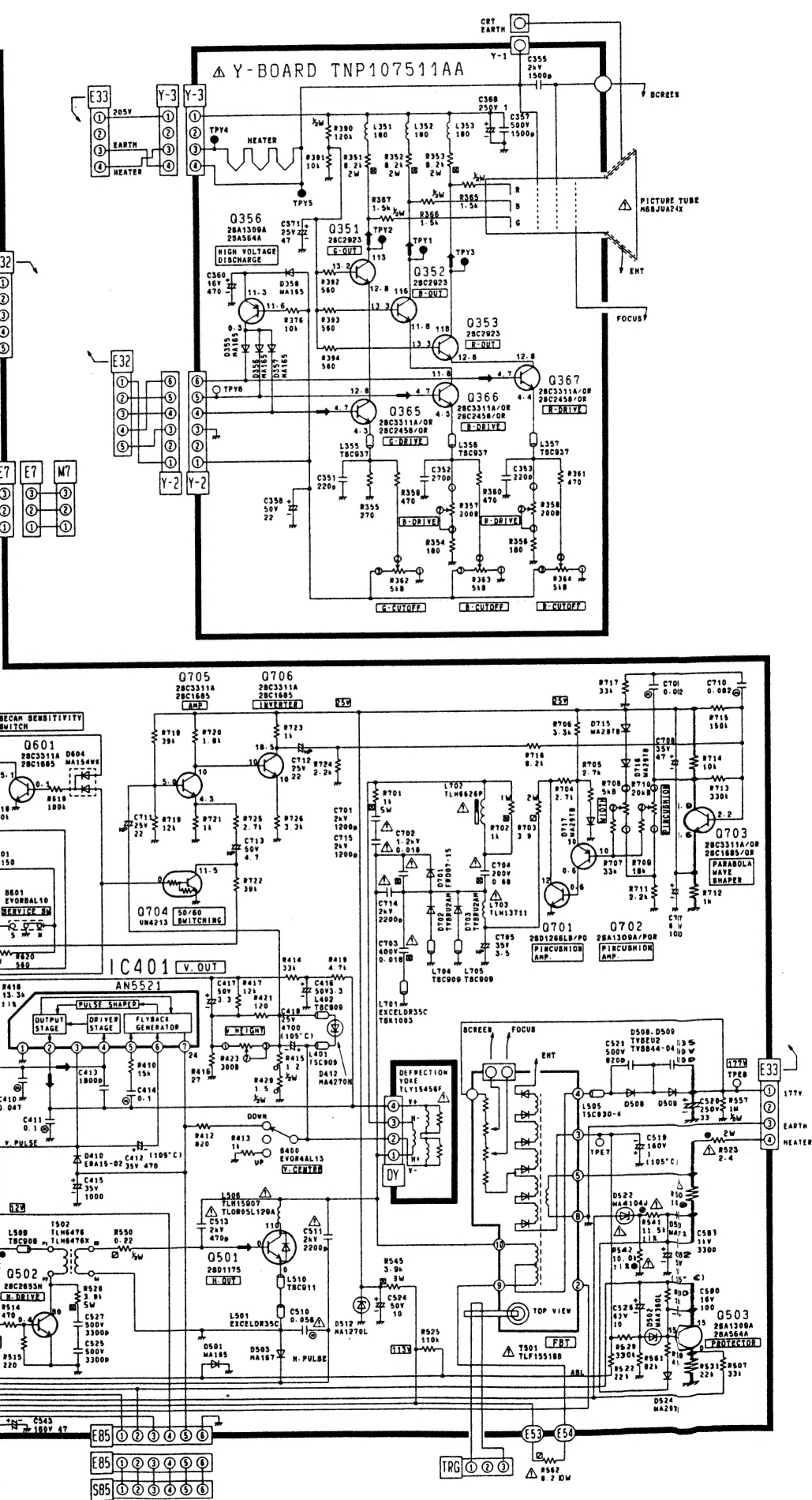
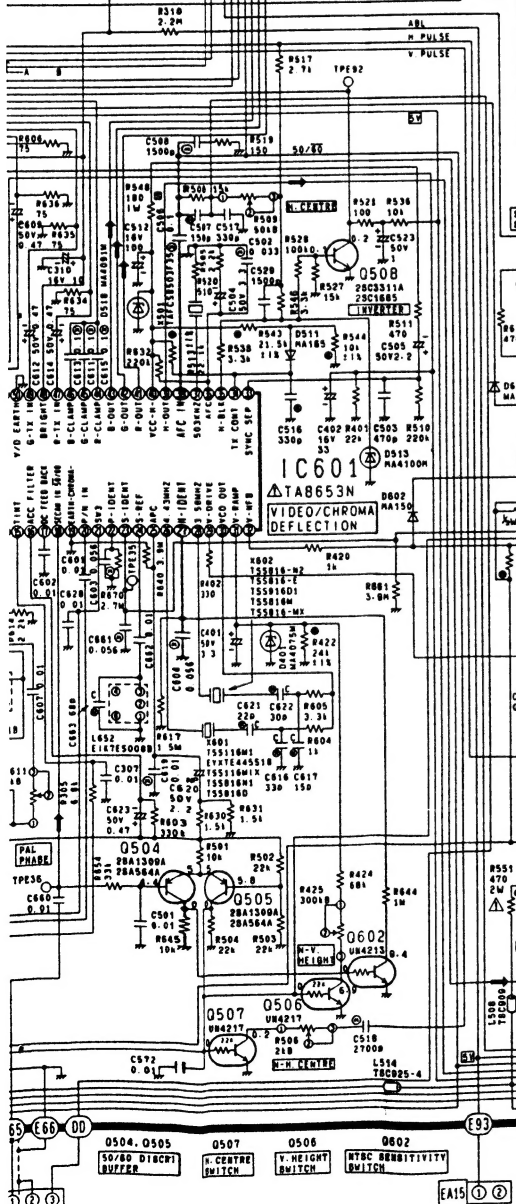
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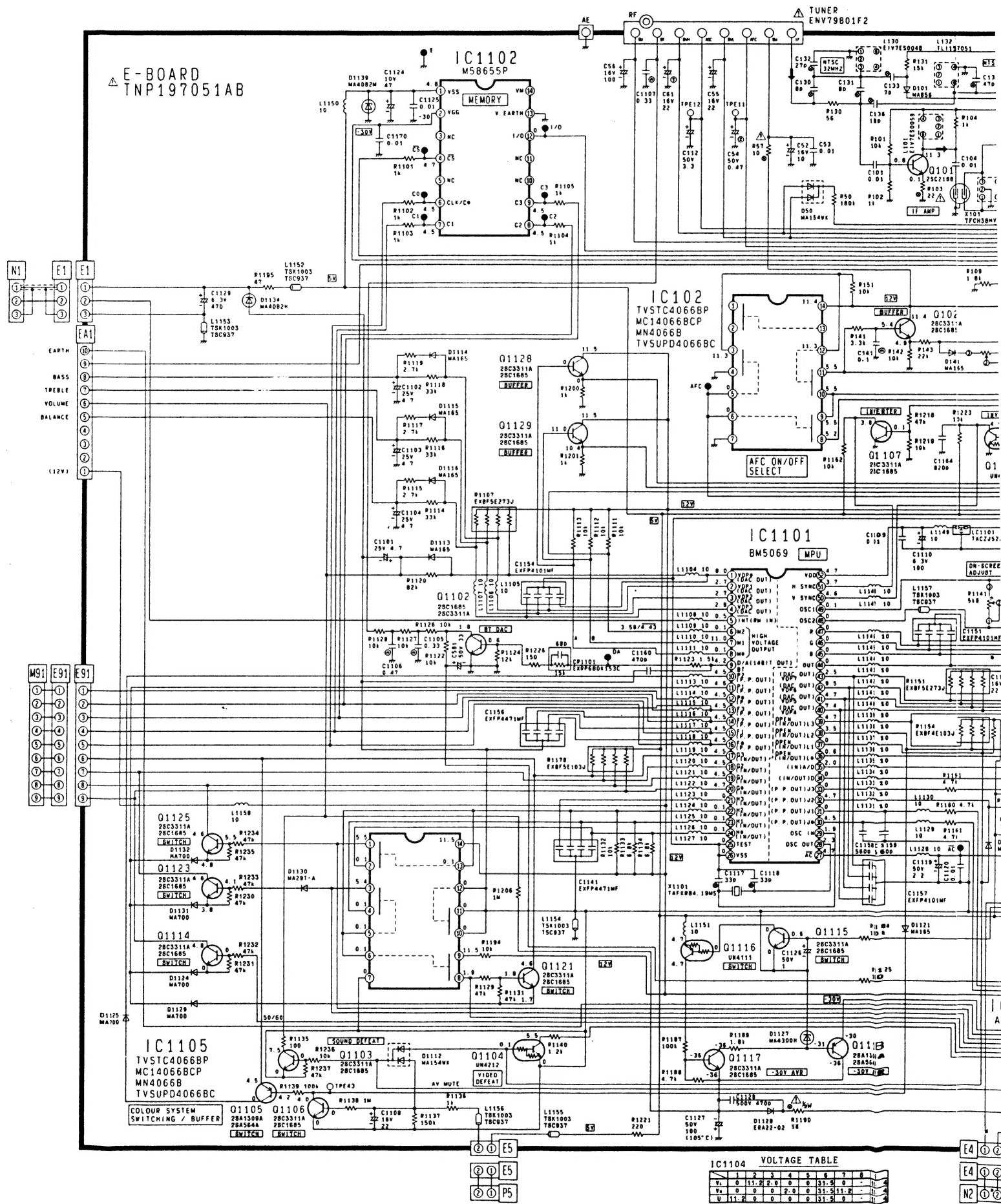
SCHEMATIC DIAGRAM FOR MODEL TC-AV33EE



AGE TABLE



E-BOARD
TNP197051AB



IC1104 VOLTAGE TABLE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
V	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
V	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100